US 20070230747A1

(19) **United States**
(12) **Patent Application Publication** (10) Pub. No.: **US 2007/0230747 A1**
Dunko (43) **Pub. Date:** **Oct. 4, 2007**

(54) **MOTION SENSOR CHARACTER GENERATION FOR MOBILE DEVICE**

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(21) Appl. No.: **11/277,797**

(22) Filed: **Mar. 29, 2006**

Publication Classification

(51) **Int. Cl.**
G06K 9/00 (2006.01)

(52) **U.S. Cl.** **382/107**; 348/699; 345/157

(57) **ABSTRACT**

There is disclosed is a mobile device for detecting, tracking, and translating motion into an image that can be rendered on a mobile device display. A motion sensor contained within the mobile device and coupled with a processor can detect and track motion in a two-dimensional plane. A motion selector button is disposed on the housing of the mobile device and coupled with the processor. The motion selector button actuates and de-actuates the motion sensor such that motion is only detected and motion data forwarded to the processor while the motion selector button is actuated. The mobile device further includes a display for rendering an image corresponding to the detected motion. The processor translates the captured motion data into a scaled two-dimensional image that is completely rendered on the mobile device display.